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PROCEEDINGS
OF THE
AMERICAN SOCIETY OF MICROSCOPISTS.
THIRD ANNUAL MEETING

The third annual meeting of the American Society of Microscopists, held in Seminary Hall, Fort street, Detroit, Michigan, was called to order at 10:30 A.M., of Tuesday, August 17, 1880, by R. H. Ward, M.D., of Troy, N. Y., the retiring President. Dr. Ward then introduced the President-elect, Prof. Hamilton L. Smith, of Geneva, N. Y., who responded with a few appropriate remarks. Prayer was then offered by the Rev. W. W. Hammond, of Detroit. At the close of the prayer, Prof. E. W. Wetmore, President of the Griffith Club of Microscopy, addressed the Society, extending to its members a cordial welcome in behalf of the resident club. In concluding his remarks, Prof. Wetmore introduced to the Society the Hon. J. J. Bagley, who spoke at length in behalf of the citizens of Detroit.

President Smith replied to the address of welcome in behalf of the Society, expressing the pleasure of its members at the favorable auspices under which they had convened, and the very cordial welcome extended to them.

The Society then took a short recess for the purpose of enrollment. Immediately on coming to order, the report of the Executive Committee was read.

On the recommendation of the Executive Committee, the following resolutions were adopted :

Resolved, That the treasurer be authorized to sell copies of the published proceedings to members of the Society for the completion of their sets at fifty cents per copy.

Resolved, That all persons exhibiting apparatus in the buildings where the sessions of the Society are held, be requested to close their rooms at least fifteen minutes before the time set for the opening of each session ; and that the local committee be requested to enforce this rule.

The Executive Committee recommended the following persons for membership, all of whom were elected by the Society :

HIRAM A. CUTTING.....	LUNENBURGH, VT.
J. W. CRUMBAUGH.....	LANCASTER, PA.
L. R. SEXTON.....	ROCHESTER, N. Y.
THADDEUS S. UPDEGRAFF.....	ELMIRA, N. Y.
S. O. GLEASON.....	ELMIRA, N. Y.
JOHN PHIN.....	NEW YORK CITY.
LEE H. SMITH.....	BUFFALO, N. Y.
F. O. JACOBS.....	NEWARK, OHIO.
W. G. LAPHAM.....	NORTHVILLE, MICH.
NAT. W. LORD.....	COLUMBUS, OHIO.
SIDNEY H. SHORT.....	DENVER, COL.
WM. HUMPHREY.....	JACKSON, MICH.
O. W. OWEN.....	DETROIT, MICH.
E. W. WETMORE.....	DETROIT, MICH.
FRED. SEYMOUR.....	DETROIT, MICH.
J. T. MAIN.....	JACKSON, MICH.
CHARLES R. FERRIS.....	DETROIT, MICH.

An invitation from the Hon. Moses W. Field was then read, tendering to the Society an excursion on the river, in the steamer Grace McMillan, on the evening of Tuesday, August 17. On motion of Prof. Kellicott, the invitation was accepted with thanks.

On motion of Dr. Ward, the Chair was authorized to appoint a committee of five from the Society to co-operate with the local committee having charge of the proposed soiree to be given Thursday evening, August 19.

Several notices were given by the Chairman of the local committee concerning the arrangements that had been made for the entertainment of members of the Society, etc.

On motion, the Society adjourned until 2:30 P.M.

The Society was called to order at 2:30 p.m. by the President. The following papers were then read and discussed :

Description of a series of plates illustrating the structure of the human teeth.
GEORGE E. FELL.

On *Lerneocera Tortua* (*n. s.*)

D. S. KELLICOTT.

This paper was discussed by. W. G. Lapham and A. H. Tuttle.

On the Relation of Medium Power Objectives to Micro-Biology.
W. G. LAPHAM.

This paper was discussed by the President, Carl Seiler, and A. H. Tuttle.

Penetration in Objectives. Is it a Defect or an Advantage?
C. M. VORCE.

This paper was discussed by George E. Fell.

On motion, the Society adjourned until Wednesday morning.

WEDNESDAY, AUGUST 18.

The Society was called to order at 10:30 A.M., the President in the Chair. The minutes of Tuesday's session were read and approved. The report from the Executive Committee was read, nominating the following persons for membership, all of whom were elected:

W. D. DOTY	ROCHESTER, N. Y.
ROSA M. REDDING	NEW CASTLE, IND.
CHAS. SHEPARD	GRAND RAPIDS, MICH.
W. B. SPRAGUE	DETROIT, MICH.
ALLEN Y. MOORE	COLDWATER, MICH.
W. J. WHITE	BUFFALO, N. Y.
WM. A. CLAPP	NEW ALBANY, IND.
JOHN SLOANE	NEW ALBANY, IND.
RICHARD J. MOHR	FAIRFIELD, IOWA.
ALBERT MCCALLA	FAIRFIELD, IOWA.

On motion of George E. Fell, the Executive Committee was instructed to take the Constitution of the Society into consideration and report any necessary changes.

A communication from the Detroit Scientific Association, inviting the Society to visit the museum of the Association, was received, and the invitation accepted with thanks. The Executive Committee was instructed to report to the Society a suitable and convenient time for making the proposed visit. The Society then proceeded to the reading of the following papers:

The Microscopical Examination of Writing for the Detection of
Forgery, Alterations, etc. C. M. VORCE.

This paper was discussed, at length, by Messrs. Redding, Seiler, Wetmore, and Ward; the latter gentleman calling attention to the force of habit in writing, and the importance of noticing the idiosyncrasies of writers in determining the genuineness or falsity of a suspected document.

On the Relative Value of various Media for Mounting Histological Preparations.
CARL SEILER.

This paper was discussed and opinions expressed at length by the President, and Messrs. Bell, Younghusband, Fisher, Walmsley, Vorce, Rezner, and Tuttle.

The hour for adjournment having arrived, the unfinished discussion of the last paper was given precedence over the papers on the afternoon programme, Dr. Seiler having the floor. The Society then adjourned until 2:30 P.M.

The Society was called to order at 2:30 P.M., by the President.

A report from the Executive Committee was read, nominating for membership

HARVEY A. CHASE **LINDEN, MICH.**
 who was elected by the Society. The Executive Committee also recommended to the Society the following, which was adopted :

Resolved, That the third annual meeting of the American Society of Microscopists adjourn on the evening of August 19, 1880.

The resolution just adopted, rendering necessary the election of a Nominating Committee, the Society proceeded to ballot, with the following results :

NOMINATING COMMITTEE.

E. H. GRIFFITH.
H. L. SMITH.
J. H. FISHER.
E. W. WETMORE.
D. S. KELLICOTT.
C. M. VORCE.
A. H. TUTTLE.

While the ballot for the nominating committee were being counted, the President, in behalf of Mr. E. H. Griffith presented a Bausch and Lomb one-half inch of 98°, which Mr. Griffith desired to substitute for the medal offered at the second annual meeting of the Society as a prize to be given to the member of the Society who should present, at the next annual meeting, the best two slides illustrating the adulteration of some common article used as food, subject to the conditions specified in his letter announcing the prize. The President also formally presented to the Society, on behalf of the author, a copy of the paper on Angular Aperture, read at the Indianapolis Congress of Microscopists, by George H. Blackham, F. R. M. S.

The following Committee was appointed to decide between the parties contesting for the Griffith prize :

W. H. WALMSLEY.

D. S. KELLICOTT.

J. H. FISHER.

The reading of papers being in order, the floor was given to Dr. Seiler, who closed the discussion of his paper read in the morning session. The following papers were then read :

Notes on the Structure, Development, and Position of an undescribed Flagellate Infusorian. JAMES H. FISHER.

This paper was discussed by Messrs. Lapham, Redding, Kellicott and Tuttle.

On the Use of Wax Cells in Connection with White Zinc Cement for Fluid Mounts. W. H. WALMSLEY.

This paper was discussed by Messrs. Redding, Vorce, Fell and Reznor.

On motion, it was resolved that the session of Thursday should begin at 9:30 A.M., instead of the usual hour. The Society then adjourned to meet in evening session.

The evening session was held in Whitney's Opera House, the order of the evening being the annual address by the President.

THURSDAY, AUGUST 19.

The Society was called to order at 9:30 A.M., pursuant to adjournment, the President in the Chair. A report from the Executive Committee was read, nominating for membership the following persons, who were elected by the Society :

P. L. HATCH MINNEAPOLIS, MINN.
THOS. J. BURRILL.....CHAMPAIGN, ILL.

The Executive Committee also reported to the Society the following modifications of the Constitution :

1st. Articles I and II to be combined as follows: "This organization shall be called the American Society of Microscopists. Its object shall be the encouragement of microscopical research."

2d. Article II to be called Article III, and to receive the following addition: "Honorary members may also be elected by the Society on nomination by the Executive Committee."

3d. The following to be substituted for Article IV, and to be called Article III: "The officers of this Society shall consist of a President and two Vice-Presidents, who shall hold their office for one year, or until their successors are elected and qualified, and shall be ineligible for re-election for two years after the expiration of their term of office; together with a Secretary and Treasurer, who shall be elected for three years, and be eligible for re-election."

4th. Article V to be known as Article IV, and to receive the following addition: "of the Vice-Presidents to audit the Treasurer's account, and of the Treasurer to act as custodian of the property of the Society."

5th. Article VI to be called Article V.

6th. Article VII to be called Article VI.

7th. Article VIII to be called Article VII, and to be modified as follows: "The election of officers shall be held on the morning of the last day of each meeting. Their term of office shall commence at the close of the meeting at which they are elected."

8th. Article IX to be called Article VIII.

9th. Article X to be called Article IX, and to receive the following addition: "And any member failing to pay his dues for two consecutive years, and after due written notification from the Treasurer, shall forfeit his membership."

10th. Article XI to be called Article X.

The proposed modifications, in accordance with the provisions of the Constitution, were laid on the table, to be acted upon at the next annual meeting of the Society.

The Nominating Committee reported the following candidates for the ensuing year :

President, J. D. HYATT, Morrisania, N. Y.
Vice-President, GEO. E. BLACKHAM, Dunkirk, N. Y.
Vice-President, W. B. REZNER, Cleveland, Ohio.
Secretary, A. H. TUTTLE, Columbus, Ohio.
Treasurer, GEO. E. FELL, Buffalo, N. Y.

For members of Executive Committee :

W. H. BREARLEY, Detroit, Mich.
J. H. FISHER, Rochester, N. Y.
A. H. CHESTER, Clinton, N. Y.

On motion of Dr. Ward, the Secretary was instructed to cast the ballot of the Society for the officers as nominated by the Committee. This having been done, the President declared these persons duly elected. The Society then proceeded to the reading of the following papers :

On the Demonstration of the Capillary Circulation in Man.
D. C. HAWXHURST.

This paper was discussed by Messrs. Seiler, Fell, Vorce and Tuttle.

On an Improvement in the Microscope Stage.
CARL SEILER.

This paper was discussed by Mr. Bulloch.

Description of a Microscope specially constructed for the examination of Rock Sections, together with a notice of a new Section Cutter.
W. H. BULLOCH.

This paper was discussed by Messrs. Seiler, McCalla, Burrill and Fell.

Description of the Griffith Club Portable Microscope.
E. H. GRIFFITH.

This paper was discussed by Messrs. McCalla and Tuttle.

Mr. W. H. Walmsley, on invitation, gave an informal description of the new International Microscope Stand, made by Messrs. R. & J. Beck.

On motion, the Society adjourned until 2:30 P.M.

The Society was called to order at 2.30 P.M., the President in the Chair. On the nomination of the Executive Committee, the following person was elected to membership of the Society :

F. S. NEWCOMER,.....INDIANAPOLIS, IND.

The Society then proceeded to the reading of the following paper :

On the Blight of Pear and Apple Trees ; or, Fire Blight and Twig Blight.
T. J. BURRILL.

The paper was discussed by the President, and by Messrs. Fisher, Redding, Lapham and Tuttle.

The Committee appointed, at the previous session, to decide between the contestants for the Griffith prize, reported unanimously in favor of Mr. C. M. Vorce, of Cleveland, Ohio, to whom it was awarded by the President.

The question of the irregular publication, by members of papers read by them before the Society, coming up for discussion, it was—

Resolved, That all papers read before the Society should, if accepted for publication by the Executive Committee, be withheld by their authors from publication elsewhere until after their appearance in the proceedings of the Society ; and that the Committee are required to signify their acceptance or rejection of all papers at the close of each meeting, and to publish the proceedings within three months after the adjournment of the Society, if possible.

The following motion was submitted by Prof. Burrill, and adopted by the Society :

Resolved, That the past President, President, and President-elect be appointed a Committee to report at the next meeting of the Society upon the amplifying powers of eye-pieces, and the proper corresponding nomenclature, and to suggest measures leading to uniformity of the latter.

Mr. E. H. Griffith renewed his offer of a prize, competition for which shall be open to all members of the Society, subject to the following conditions :

The prize shall be assigned to the author of the best paper on the adulteration of some important article of food or medicine, and its detection by the microscope. The paper shall be accompanied by permanently mounted slides illustrating the various points under discussion : all papers and slides to become the property of the Society. All papers and accompanying slides shall be given to the President of the Society on the first day of the next annual meeting, who shall appoint a Committee of three to examine the same, and report the name of the successful competitor before the close of the meeting. The names of the competitors shall not be made known to any member of the Committee until after the award is made. No award shall be made unless there is more than one competitor.

In making the renewal of his offer, Mr. Griffith stated that the prize for 1881 would be a Bausch and Lomb one-half inch objective of 98° aperture, or its equivalent in value.

On motion of Mr. Geo. E. Fell, the offer of Mr. Griffith was accepted with the thanks of the Society.

Mr. C. M. Vorce presented the following, which was unanimously adopted by the Society :

Resolved, That the sincere thanks of the American Society of Microscopists be tendered to the Citizens of Detroit for the very kind entertainment and encouragement extended by them to the Society, and to the members of the Griffith Club of Microscopy, who have so energetically labored for the success of this meeting, and for the pleasure and comfort of the members of this Society.

Mr. Geo. E. Fell then moved the following, which was unanimously adopted by the Society :

Resolved, That the thanks of the American Society of Microscopists be returned to Prof. M. H. Martin for the use of the very convenient rooms in Seminary Hall, given by him for the sessions of this Society in Detroit ; to the Hon. Moses W. Fields for the excursion to Wyandotte, given by him to the Society, on his steamer ; to Mr. C. J. Whitney for the use of his Opera House on the occasion of the delivery of the Presidential address ; and to the Detroit Scientific Association for the freedom of their museum, tendered to the members of the Society.

The Treasurer then presented his annual report, showing a balance in the treasury of \$266.06. The report was accepted and approved. The minutes of the last day's session were then read by the Secretary, and accepted by the Society.

On motion, the Society then took a recess until the close of the soiree, to be given jointly by the Griffith Club of Microscopy and the American Society of Microscopists, at which time it adjourned, to meet at the call of the Executive Committee.

Approved :

HAMILTON L. SMITH, *President*.